




Cybersecurity for Smart Commercial Buildings

The BIOT Creates New Cybersecurity Vulnerabilities


An estimated **2.7 BILLION DEVICES** are already connected in Smart Buildings³

140 2011 **243** 2014
US Cybersecurity breaches involving building control systems⁴


9% of Building Automation Systems were linked to known vulnerabilities in 2014⁵


IP Cameras linked to the Internet⁶
392,115 HIKVISION **392,817** DAHUA

84%
Building Automation Systems with Internet connections¹

75%
Organizations without formal cybersecurity incident response²

29%
Organisations that have taken action to improve cybersecurity¹

BY 2018, 20% OF SMART BUILDINGS WILL HAVE SUFFERED some form of digital vandalism⁷

The Cybersecurity Life Cycle



Multiple Potential Threat Actors



Drivers & Challenges

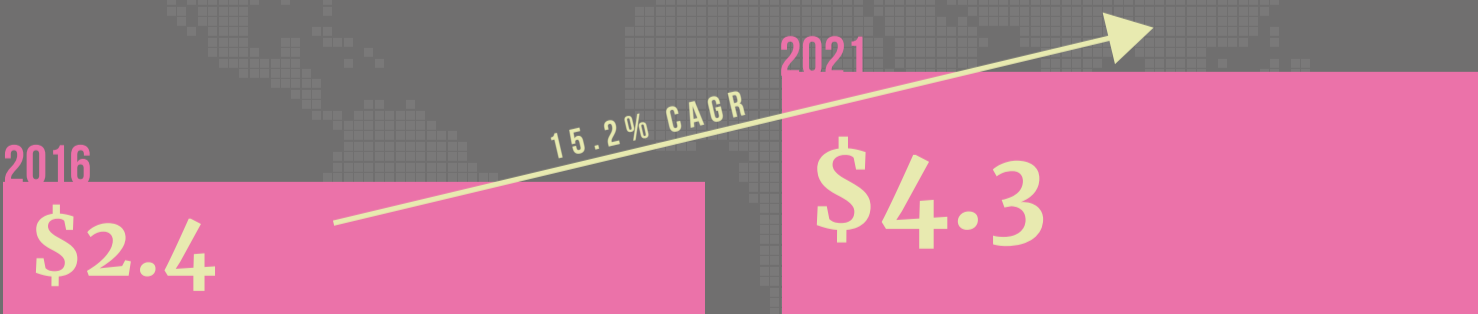
USA 27% **EUROPE** 30% **ASIA** 22%
SKILLS
Percentage of companies unable to fill open cyber security positions in their enterprises⁸


CYBERSECURITY CONCERNS
Cybersecurity risks remain the leading cause for concern that is hindering the rollout of the IoT in multiple surveys

"INSUFFICIENT PLANNING & PREPAREDNESS"
PREPAREDNESS
66 percent say this is the top barrier to cyber resilience.²

GLOBAL MARKET FOR CYBERSECURITY IN SMART COMMERCIAL BUILDINGS

(\$ Billion)



BEST PRACTICE FOR CYBER THREAT MITIGATION

- Perform risk assessments & security audits
- Build security awareness & collective responsibility across the organisation & your supply chain
- Develop and adopt safeguards, standards and corporate policies for cybersecurity across the organisation
- Adopt a layered security approach, with security embedded all the way from the device to the perimeter